

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application for:

F. Kobayashi

Divisional of Serial No.: 09/027,012

For: **OPTICAL SEMICONDUCTOR  
DEVICE AND METHOD OF  
FABRICATING THE SAME**



**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

In accordance with 37 C.F.R. /1.56, Applicant hereby discloses the prior art references that have been submitted and/or cited in the following related applications/patents:

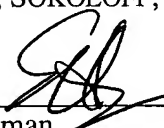
Serial No.	Filing Date	Patent No.	Issue Date
09/027,012	2/18/98	5,783,844	7/21/98

Forms PTO-1449 (modified), PTO-1449 and PTO-892 are enclosed herewith. Copies of the references are not provided as permitted by 37 C.F.R. / 1.98(d).

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 1/3/02

  
Eric S. Hyman  
Reg. No. 30,139

12400 Wilshire Boulevard, Seventh Floor  
Los Angeles, California 90025  
(310) 207-3800

<b>Notice of References Cited</b>	Application No. <b>09/027,012</b>	Applicant(s) <b>Kobayashi et al</b>	
	Examiner <b>Huy Bui</b>	Group Art Unit <b>2815</b>	Page 1 of 1

**U.S. PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	5,346,854	9/13/94	Ahn et al.	437	129
B	4,788,159	11/29/88	Smith	437	90
C	4,335,501	6/22/82	Wickenden et al.	29	569
D					
E					
F					
G					
H					
I					
J					
K					
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M					

1-857 U.S. PTO  
10/067553  
02/04/02

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N						
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P						
Q						
R						
S						
T						

**NON-PATENT DOCUMENTS**

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
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TO SEPARATE, H. TOP AND BOTTOM EDGES, SNAP-APART AND DISCARD CARBON

FORM PTO-892 (REV. 2-92)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		SERIAL NO. 8/534,333	GROUP/ART UNIT 2503	ATTACHMENT TO PAPER NUMBER	12		
NOTICE OF REFERENCES CITED				APPLICANT(S) Kobayashi et al.					
U.S. PATENT DOCUMENTS									
		DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE		
A									
B									
C									
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FOREIGN PATENT DOCUMENTS									
		DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. DWG.	PP. SPEC.
L									
M									
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)									
		Kjebon et al., "Regrowth of Semi-Insulating Iron doped InP..." 4/92, IEEE Catalog # 92CH3104-7, pp 48-50							
S									
T									
U									
EXAMINER <i>[Signature]</i> 11/6/2005									
* A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, section 707.05 (a).)									

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O.I.P.E.  
JAN 25 2001  
PATENT & TRADEMARK OFFICE

Form PTO-1449 (Modified)	Atty Docket No. 96790P197D	Application No. 09/027,012
List of Patents & Publications Statement	Applicant(s): F. Kobayashi	
(Use several sheets if necessary)	Filing Date: February 20, 1998	Group No.: 2815

U.S. PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Name	Class	Sub-class	Filing Date (if appropriate)
<del>REB</del>	AA	5104824	04/14/1992	Clausen Jr., et al.	437	90	
	AB	5094973	03/10/1992	Pang	437	67	
	AC						
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02/04/02

FOREIGN PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Country	Class	Sub-class	Translation Yes	No
<del>REB</del>	AL	EP 0 588 747 A2	23/03/1994	Europe	H01L 21	76	X	
	AM							
	AN							
	AO							
	AP							
	AQ							

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OTHER ART (Including Title, Author, Date, Pertinent Pages, etc.)

Exam. Initials	Document Identification
<del>REB</del>	Patent Abstracts of Japan, vol. 17, no. 174, April 5, 1993
<del>REB</del>	Patent Abstracts of Japan, vol. 16, no. 390, August 19, 1992
AT	

Examiner: *[Signature]*

Date Considered: *10/6/2005*

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

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01/13/97

Form PTO-1449 (Modified)	Atty Docket No. 96790.P197	Serial No. 08/534,333
List of Patents & Publications Statement	Applicant(s): Fuhihiko Kobayashi et al.	
(Use several sheets if necessary)	Filing Date: September 27, 1995	Group No.:

## U.S. PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Name	Class	Sub-class	Filing Date (if appropriate)
<del>CEB</del>	AA	5,104,824	4/14/92	CLAUSEN, JR. et al.	437	90	
<del>CEB</del>	AB	3,425,879	2/4/69	D.W. SHAW et al.	148	175	
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Exam. Initials		Document Number	Date	Country	Class	Sub-class	Translation Yes	No
<del>CEB</del>	AL	EPA0261408	8/21/87	EUROPE	H01S	19	X	
	AM							
	AN							
	AO							
	AP							
	AQ							

## OTHER ART (Including Title, Author, Date, Pertinent Pages, etc.)

Exam. Initials		Document Identification
<del>CEB</del>	AR	PATENT ABSTRACTS OF JAPAN, vol. 10, no. 186, June 28, 1986 & JPA61032587 ✓
<del>CEB</del>	AS	PATENT ABSTRACTS OF JAPAN, vol. 7, no. 154, July 6, 1958 & JP58064086 ✓
<del>CEB</del>	AT	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, pages 48-50

Examiner: *[Signature]*Date Considered: 10/6/2003

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

Form PTO-1449 (Modified)	Atty Docket No. 96790.p197	Serial No. 08/534,333
List of Patents & Publications Statement	Applicant(s): FUMIHIKO KOBAYASHI et al.	
(Use several sheets if necessary)	Filing Date: 9/27/95	Group No.: 1109

U.S. PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Name	Class	Sub-class	Filing Date (if appropriate)
<del>10/2</del>	AA	5,094,973	3/10/92	PANG	437	67	
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Exam. Initials		Document Number	Date	Country	Class	Sub-class	Translation Yes No	
<del>10/2</del>	AL	EP-0 588 747 A2	8/24/93	EUROPE	H01L	76	X	
	AM							
	AN							
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	AP							
	AQ							

OTHER ART (Including Title, Author, Date, Pertinent Pages, etc.)

Exam. Initials	Document Identification
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AS	
AT	

Examiner:

Date Considered:

10/6/2003

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication



FORM PTO-1449  
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

#2

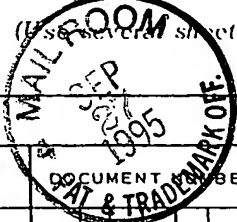
LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

FILING DATE

GROUP



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
AB						
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AH						
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AJ						
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AL	KOKAI 63-31111	Feb. 9, 1988	Japan				
AM	KOKAI 63-287014	Nov. 24, 1988	Japan				
AN	KOKAI 63-311786	Dec. 20, 1988	Japan				
AO	KOKAI 1-175727	July 12, 1989	Japan				
AR							

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AR	"Digital Signal Regeneration with Side-Injection-Light-Controlled Bistable Laser Diode as a Wavelength Converter" by K. Nonaka, et al. IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 7, No. 1, January 1995, pp. 29-31
AS	"VERY RAPID AND SELECTIVE EPITAXY OF InP AROUND MESAS OF HEIGHT UP TO 14 μm BY HYDRIDE VAPOUR PHASE EPITAXY" by S. Lourduoss, et al. 6th Int. Conf. on Indium Phosphide and Related Materials, Santa Barbara, (1994) pp. 615-618
AT	"PLANAR SURFACE BURIED-HETEROSTRUCTURE InGaAsP/InP LASERS WITH HYDRIDE VPE-GROWN Fe-DOPED HIGHLY RESISTIVE CURRENT-BLOCKING LAYERS" by S. Sugou, et al. ELECTRONICS LETTERS 6th November 1986 Vol. 22 No. 23 pp. 1214-1215

EXAMINER

DATE CONSIDERED,

10/6/03